## **IN THE CLAIMS**

The following listing of the claims is provided in accordance with 37 C.F.R. §1.121.

1. (currently amended) A medical communications system, the system comprising:

an imaging system;

a low earth orbit transceiver coupled to the imaging system, wherein the low earth orbit transceiver receives command data and transmits operational data <u>and image data</u> to a service center; and

a satellite based positioning system receiver coupled to the imaging system, wherein the satellite based positioning system receiver obtains a plurality of position signals from a plurality of position satellites to determine a position of the imaging system.

- 2. (original) The system of claim 1, wherein the imaging system is located in a vehicle.
- 3. (original) The system of claim 1, wherein the imaging system comprises at least one monitor for monitoring at least one operational condition of the imaging system and providing at least one operational condition to the service center.
- 4. (original) The system of claim 3, wherein the imaging system comprises a magnetic resonance imaging system.
- 5. (original) The system of claim 4, wherein the at least one monitor comprises a smart helium meter.

- 6. (original) The system of claim 4, wherein the at least one monitor comprises a plurality of sensors that measure a level of liquid helium within the magnetic resonance imaging system.
- 7. (original) The system of claim 3, wherein the at least one monitor comprises a cooling system monitor.
- 8. (original) The system of claim 3, wherein the imaging system comprises a computed tomography system.
- 9. (original) The system of claim 3, wherein the operational data comprises position data and at least one operational condition.
- 10. (original) The system of claim 1, wherein the satellite based positioning system receiver comprises a global positioning system receiver.
- 11. (currently amended) A method for communicating data with a medical imaging system, the method comprising the steps of:

monitoring an imaging system for monitored data;

receiving a plurality of position signals from a plurality of satellites;

determining location information of the imaging system from the plurality of position signals; and

- transmitting operational data <u>and image data</u> from the imaging system to at least one service center via a low earth orbit satellite system, wherein the operational data comprises the monitored data and the location information.
- 12. original) The method of claim 11, comprising the further step of the at least one service center responding to the operational data.

- 13. (original) The method of claim 11, comprising the further step of acquiring monitored data from at least one monitor coupled to the imaging system.
- 14. (original) The method of claim 11, comprising the further step of polling the at least one monitor coupled to the imaging system.
- 15. (original) The method of claim 14, wherein the imaging system comprises a magnetic resonance imaging system.
- 16. (original) The method of claim 15, wherein the at least one monitor comprises a smart helium meter.
- 17. (original) The method of claim 11, comprising the further step of encoding the operational data in hexadecimal format.
- 18. (original) The method of claim 11, wherein the operational data received at the at least one service center comprises monitored data associated with an operational condition of the imaging system and position data associated with the location of the imaging system.
- 19. (original) The method of claim 11, wherein the low earth orbit satellite system comprises a plurality of low earth orbit satellites.
- 20. (currently amended) A computer program that is stored on one of more tangible mediums for communicating data with a medical imaging system, the program comprising:

a routine for accessing monitored data associated with an imaging system;

Page 5

a routine for determining a position of the imaging system from a plurality of signals; and

a routine for transmitting operational data <u>and image data</u> from the imaging system to a service center via a low earth orbit satellite system.

- 21. (original) The computer program, as set forth in claim 20, comprising a routine for integrating the position of the imaging system and the monitored data into the operational data for transmission to the service center.
- 22. (original) The computer program, as set forth in claim 20, comprising a routine for encoding the operational data into a hexadecimal format for transmission to the service center.
- 23. (original) The computer program, as set forth in claim 20, wherein the imaging system comprises a magnetic resonance imaging system.
- 24. (original) The computer program, as set forth in claim 23, wherein accessing comprises polling a smart helium meter coupled to the imaging system for monitored data.
- 25. (currently amended) The computer program, as set forth in claim 20, wherein transmitting the operational data <u>and image data</u> comprises communicating the operational data <u>and image data</u> through a plurality of low earth orbit satellites.
- 26. (currently amended) A system for communicating data with an imaging system, the system comprising:

means for monitoring at least one imaging system for a plurality of operational conditions;

Application No. 10/723,865 Amendment and Response to Office Action Mailed on March 24, 2010 Page 6

## means for obtaining image data from at least one imaging system;

means for determining a position of at least one imaging system from a plurality of position signals; and

means for communicating the plurality <u>of</u> operational conditions, <u>image data</u>, and the position to at least one service center via a low earth orbit satellite system.